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GMD/PAG/M-81-65
1 June 1965

MEMORANDUM FOR: NSA/TCO 25X1A
ATTENTION: [REDACTED]
THROUGH: [REDACTED] NSA/LO/NPIC
SUBJECT: Chinese Shipyards and Port Facilities
REFERENCE: Requirement [REDACTED], NPIC Project
No. 12037-64 (Partial answer)

In response to the reference requirement, the attached material
is forwarded herewith:

Pre-release of Detailed Photographic Interpretation
Report, "Shang-Hai Port Facilities, China".

25X1A

[REDACTED]
Colonel, USA
Assistant for Photographic Analysis, NPIC

Attachment:
As stated above

Distribution:

Orig & 1 - NSA/TCO w/att
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DECLASS REVIEW by NIMA/DOD

25X1A

S-17471

GMD/PAG/M-81-85
dated 1 June 1965

Shang-Hai Port Facilities

25X1A

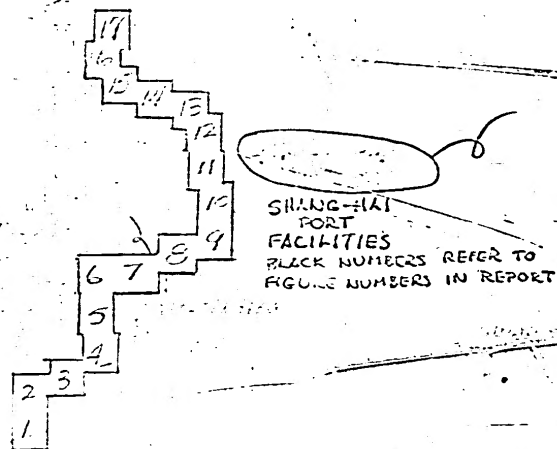
Shang-Hai Port Facilities [redacted]
and associated wharfage is located on both banks of the Huang-Pu Chinag
(River) at 31 14N 121 29E (Figure A). The port consists of approximately
25 km of river front extending southward from its confluence with the
Ch'ang Chiang (Yangtze River).

This river port is subject to continuous silting and mud flats are
prevalent, seriously limiting alongside depths. This results in long
approaches to pontoons and wharves. Primarily a lighter port, pontoons and
small offshore wharves are predominate in most of the port area (Figures 1 -
17). There is almost no rail service and little crange at dock side. An
excellent road net provides access to the urban area with rail and water
borne traffic serving the hinterland.

The port facilities reflect little change in the [redacted] period.

25X1D

THE LITTLE BLACK NUMBERS
IN THE LITTLE RED ARREST-BOXES
SHOW THE PART OF THE RIVER BLOWN-
UP ON THE BIG PICTURES LATER ON
IN THE BOOK.

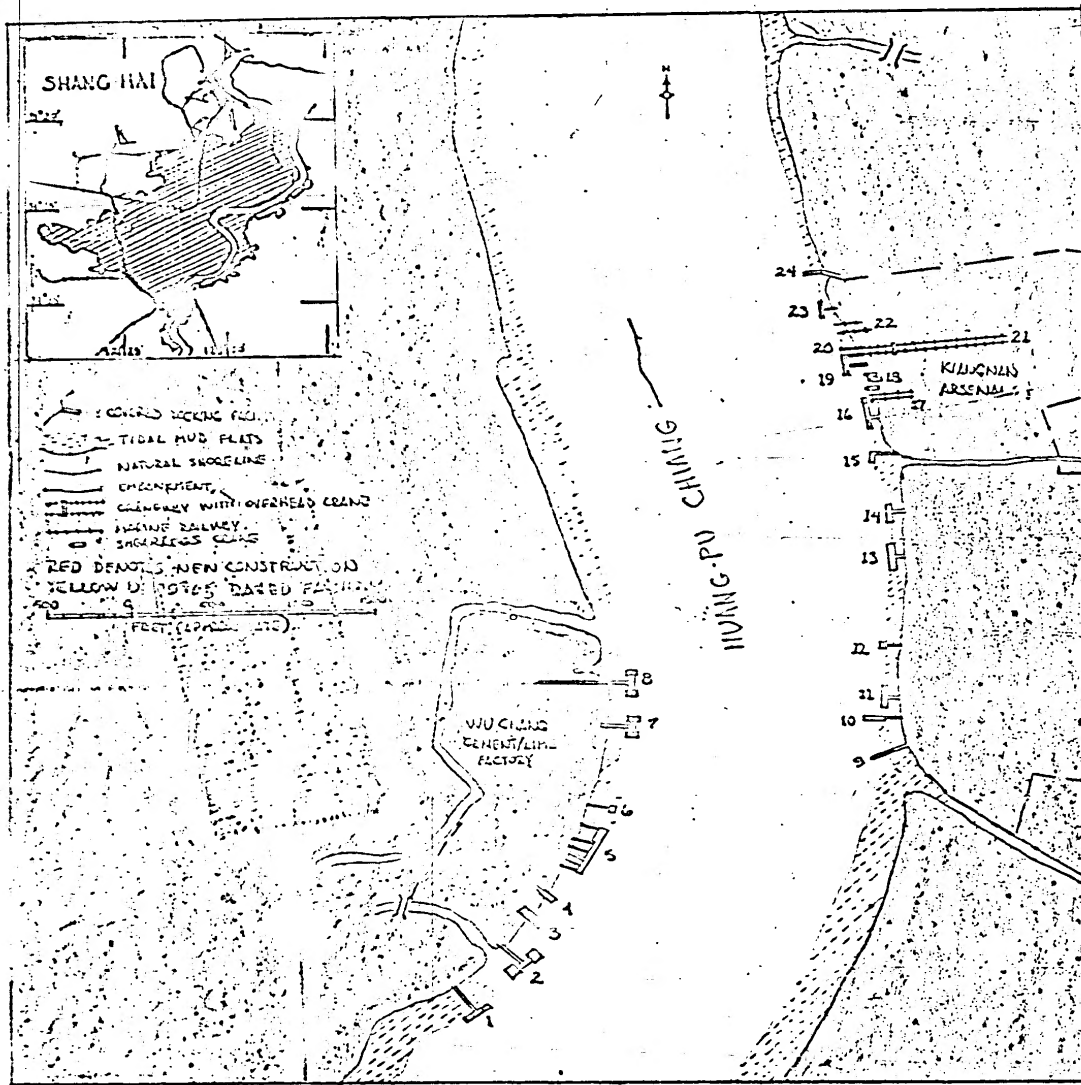


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A

LIGHTS

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25X1



1

Make some size 6 1/2 x 7 1/2


12037 P
FIG 12 OF 18-17

25X1

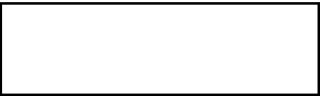
SHANG-HAI PORT

<u>Item</u>	<u>Description</u>	<u>Length</u>	<u>Width</u>	<u>Remarks</u>
1-1	Pontoon Wharf Approach	60	20	25X1D
1-2	T-Head Pier Approach	220	40 30	Covered loading facility
1-3	Covered Pier	200	85	
1-4	Pier	100		25X1D
1-5	Offshore Wharf 5 Approaches	400	30-40 20	Conveyor at N end
1-6	Covered Landing Approach	45	30 10	Two Dolphins outboard
1-7	T-Head Pier Approach	150	30 30	Covered loading facility
1-8	T-Head Pier Approach	220 695	40 25	Covered loading facility Covered conveyor
1-9	Pier	50		Not in use due to shallow water
1-10	Pier Approach	150	15	25X1D
1-11	T-Head Pier Approach	155	30	25X1D
1-12	Covered Landing	30	30 10	
1-13	T-Head Pier	225		Coal handling facility 25X1D
1-14	T-Head Pier Approach	130	20 15	
1-15	Pontoon Wharf Approach	45	10	25X1D
1-16	L-Head Pier Approach	135	30 15	
1-17	Overhead Crane Crane Way	60' span 280	60	Extends over water

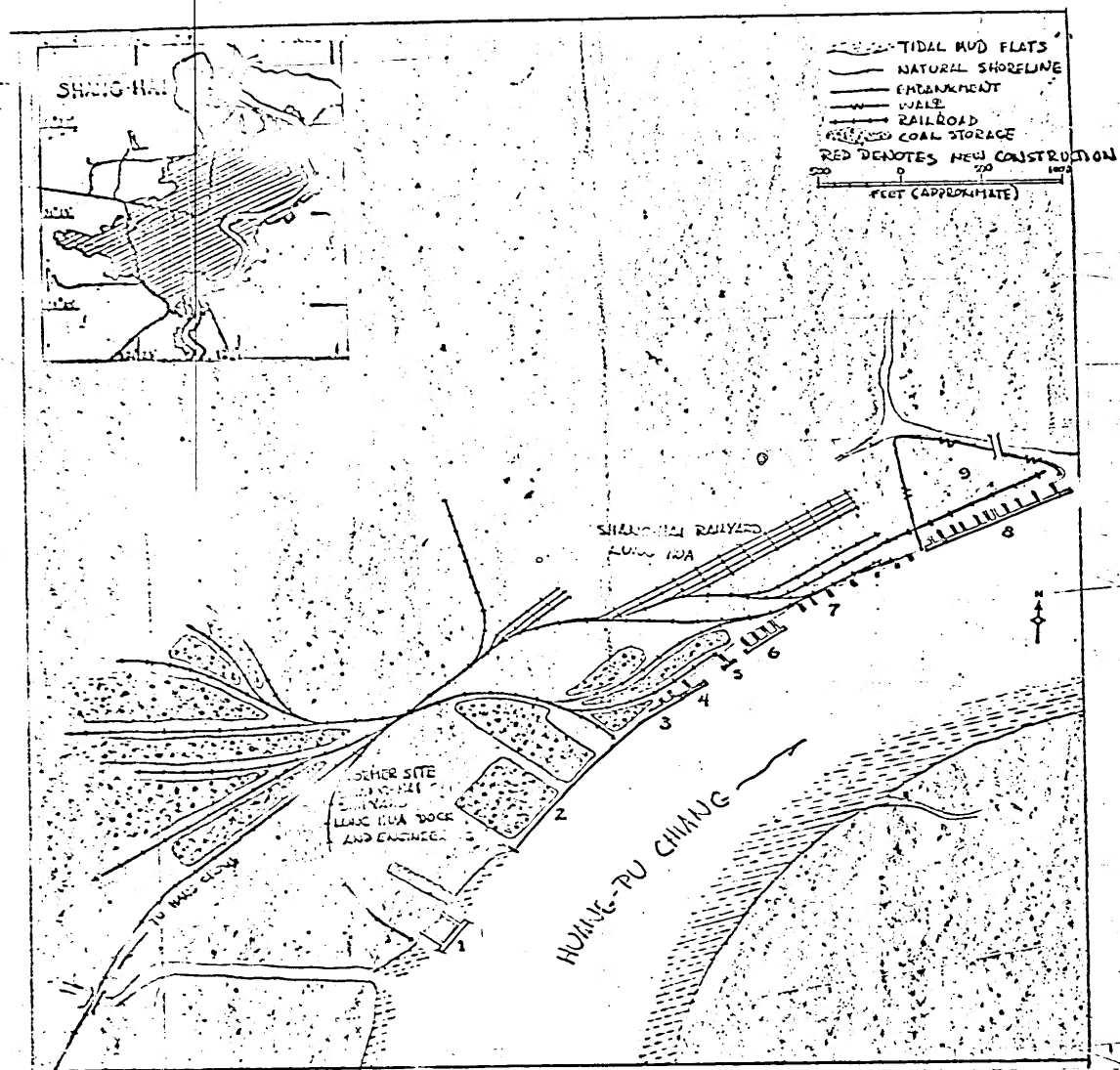
25X1



<u>Item</u>	<u>Description</u>	<u>Length</u>	<u>Width</u>	<u>Remarks</u>
1-18	3 Shearlegs Cranes			Along mud bank
1-19	Offshore Wharf 2 Approaches	150	30	
1-20	Pier	150	15	
1-21	Bridge Crane Crane Ways	110 1050	20 <input type="checkbox"/>	25X1D Extend to end of pier/wharf (19 and 20)
1-22	2 Repair Ways 1 U/I Vessel	205 150 70	10 10 <input type="checkbox"/>	
1-23	Pontoon Wharf Approach	130	30 10	25X1D
1-24	Covered Pier	90	60	



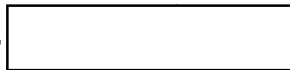
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Make scale size 6 1/4" x 7 1/2"

12037 P
FIG 2 OF 17

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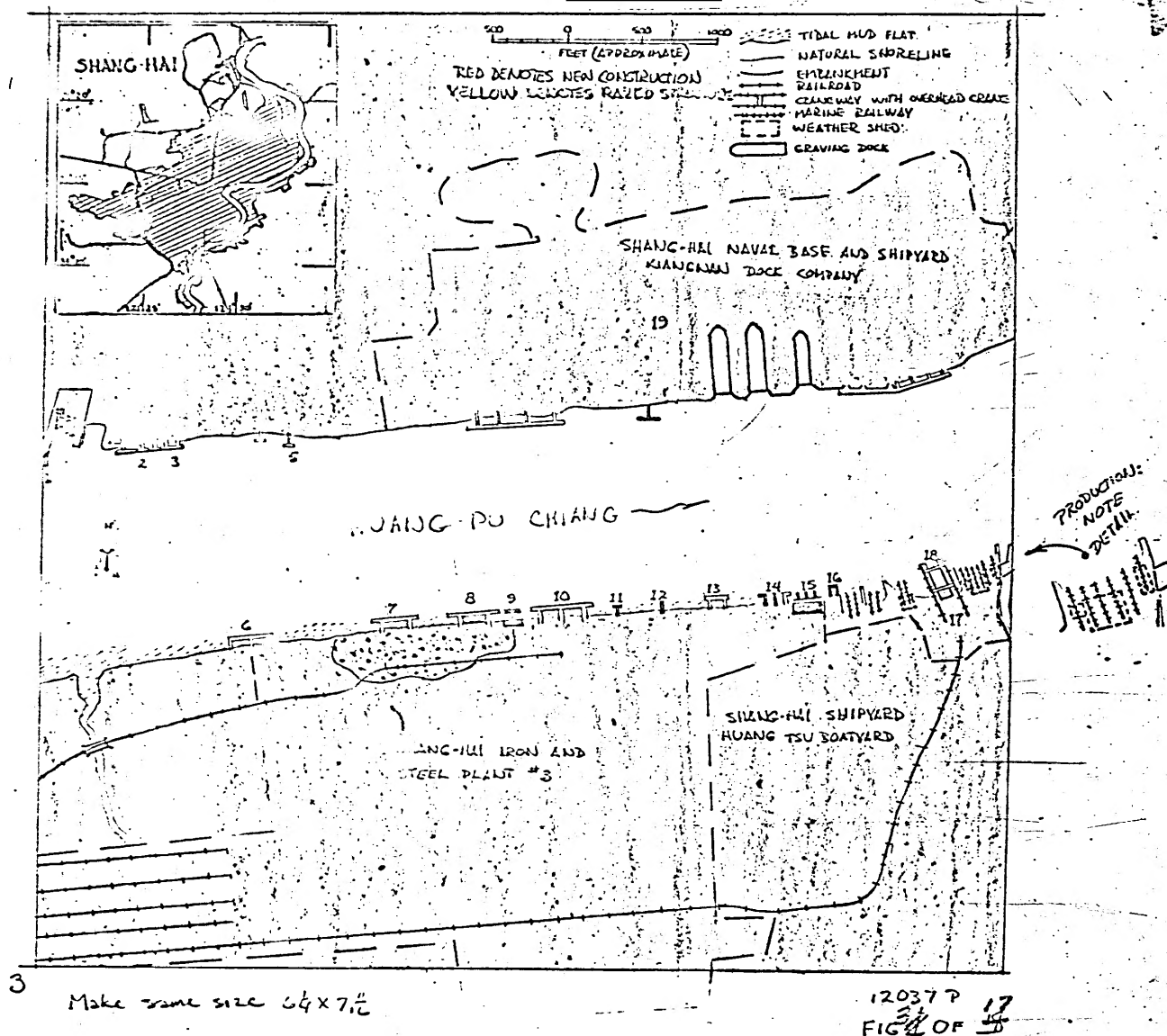
<u>Item</u>	<u>Description</u>	<u>Length</u>	<u>Width</u>	<u>Remarks</u>
2-1	Marginal Wharf Filled Approach	340 250	35 170-205	1 Mobile crane
2-2	Marginal Wharf (Coal storage area)	1500	100	7 Mobile cranes 3 Drag lines)
2-3	Offshore Wharf 2 Approaches	275		25X1D
2-4	Pontoon Wharf Approach	250	30 	(Joins 2-3) 25X1D
2-5	Pontoon Wharf Approach	90	15 	25X1D
2-6	Offshore Wharf 4 Approaches	350	35 	2 Mobile cranes 25X1D
2-7	7 Short Piers	15-60' long		
2-8	Offshore Wharf 11 Approaches	1150	40 20	4 Mobile cranes
2-9	Storage Area Covered storage approximately 250,000 square feet	1225	1100	Rail served

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25X1



<u>Item</u>	<u>Description</u>	<u>Length</u>	<u>Width</u>	<u>Remarks</u>
3-1	Boat Repair Yard Pier	600 120	300 15	Small boat repair
3-2	Offshore Wharf Approach	40	<div style="border: 1px solid black; width: 30px; height: 20px; display: flex; align-items: center; justify-content: center;">15</div>	25X1D
3-3	Offshore Wharf 2 Approaches	125	<div style="border: 1px solid black; width: 30px; height: 20px;"></div>	25X1D
3-4	T-Head Pier Approach	50	15 15	
3-5	Pontoon Wharf Approach	40	<div style="border: 1px solid black; width: 30px; height: 20px; display: flex; align-items: center; justify-content: center;">10</div>	25X1D
3-6	Offshore Wharf 3 Approaches	320	<div style="border: 1px solid black; width: 30px; height: 20px;"></div>	3 Mobile cranes 25X1D
3-7	Offshore Wharf Filled Approaches	300 110	30 200	25X1D
3-8	Offshore Wharf Filled Approaches	350 110	<div style="border: 1px solid black; width: 30px; height: 20px;"></div> 200	2 Possible cranes
3-9	Probable Water Pumping Station 3 Intakes	100	55 <div style="border: 1px solid black; width: 30px; height: 20px; display: flex; align-items: center; justify-content: center;">diameter</div>	25X1D
3-10	Offshore Wharf 3 Approaches	460	40 <div style="border: 1px solid black; width: 30px; height: 20px;"></div>	3 Mobile cranes
3-11	T-Head Pier Approach	55	20 20	25X1D
3-12	Pier	<div style="border: 1px solid black; width: 30px; height: 20px;"></div>	15	
3-13	Offshore Wharf 2 Approaches	150	50 20	25X1D
3-14	3 Piers Storage building	70 300	<div style="border: 1px solid black; width: 30px; height: 20px;"></div>	Serve storage building Multi story
3-15	3 Piers	55	10-15	Bulkheaded shoreline
3-16	Offshore Wharf 2 Approaches	70	<div style="border: 1px solid black; width: 30px; height: 20px; display: flex; align-items: center; justify-content: center;">15</div>	Ferry landing
				25X1D

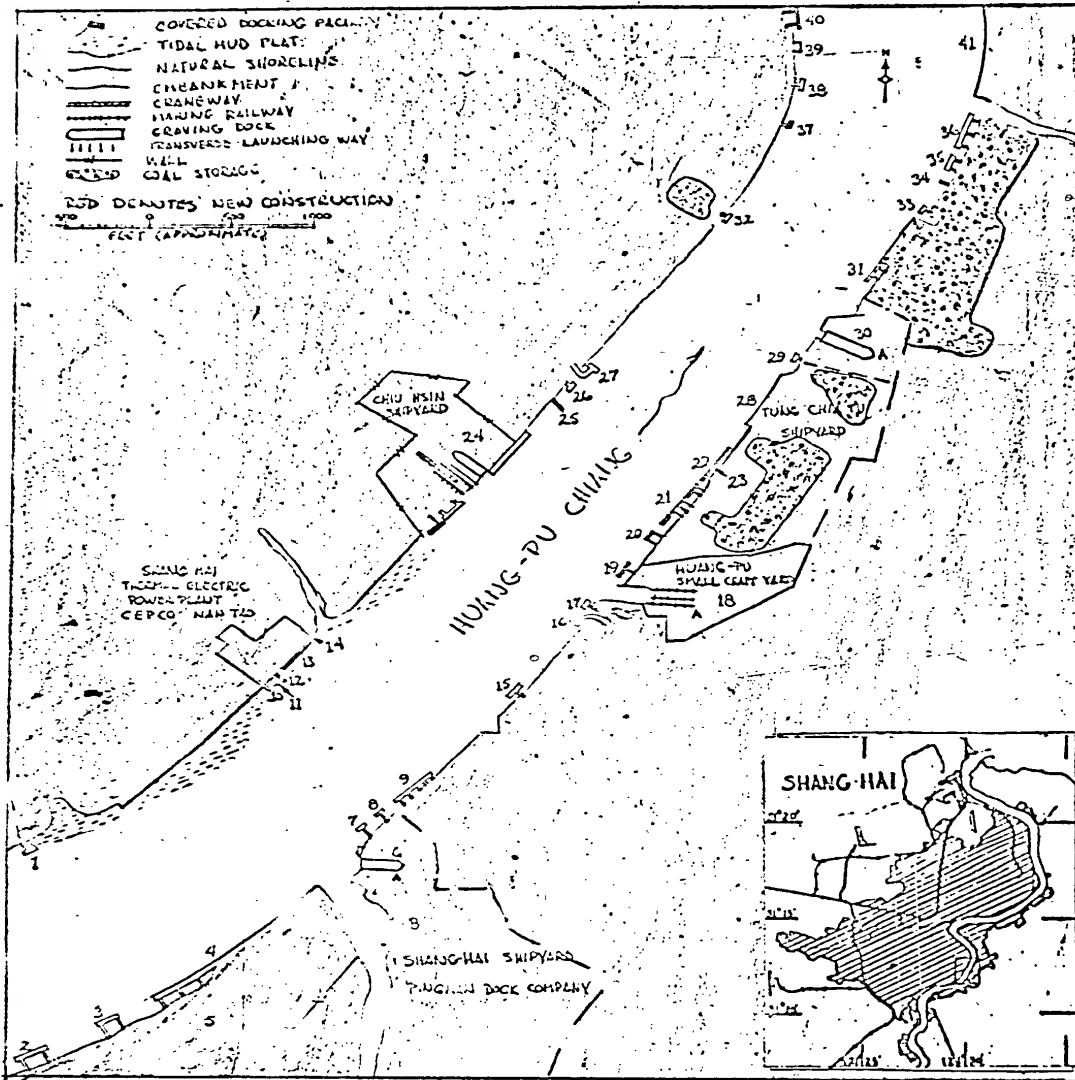
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25X1

<u>Item</u>	<u>Description</u>	<u>Length</u>	<u>Width</u>	<u>Remarks</u>
3-17	Shanghai Shipyard Huang Tsu Boatyard			Road and Rail served
	1 Marine Railway	260	55	Numerous small shops and
	6 Repair Ways	70-130	55	support buildings
	5 Covered Ways	70-130	55	25X1D
3-18	2 Piers	350	<input type="checkbox"/> 85	Supporting Crane Ways
	2 Overhead Cranes	125	20	
	Crane Ways	500	125	
3-19	Shang-Hai Naval Base and Shipyard Kiang Nan Dock Company			Facilities include three graving docks, eleven build- ing ways, six traveling jib cranes and two offshore fitting-out wharves

25X1

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4 Make same size $6\frac{1}{4} \times 7\frac{1}{16}$

12037P
FIG 2 OF 17

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<u>Item</u>	<u>Description</u>	<u>Length</u>	<u>Width</u>	<u>Remarks</u>
4-1	Offshore Wharf 2 Approaches	70	<input type="text"/>	Ferry landing
4-2	Offshore Wharf 2 Approaches	250	35 15	25X1D
4-3	Offshore Wharf 2 Approaches	185	35 15	25X1D
4-4	Offshore/Marginal Wharf 3 Approaches	1550	<input type="text"/>	4 Mobile cranes
4-5	Storage Area Covered Storage Approximately 329,00 square feet Administrative/Housing Buildings Approximately 36,000 square feet	2900	780	Secured
4-6	Shang Hai Shipyard Ping Nan Dock Company A. Graving Dock 290 B. Marine Railway 240		<input type="text"/> 50	25X1D coping)
4-7	Pontoon Wharf Approach	75	25 15	
4-8	Pontoon Wharf Approach	<input type="text"/>	25 10	
4-9	Offshore Wharf 5 Approaches	350	30 15	Coal handling equipment
4-10	L-Head Pier Approach	35	<input type="text"/> 15	25X1D
4-11	Pier	50	15	
4-12	Covered Pier	<input type="text"/>	25	
4-13	Marginal Wharf	280	<input type="text"/>	2 Coal handling T-Head cranes
4-14	Pier	50	15	
4-15	Pontoon Wharf Approach	150	25 15	
4-16	Vehicular Fe Landing			25X1D
4-17	Covered T-Head Pier Approach	50	<input type="text"/> 35	25X1D

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<u>Item</u>	<u>Description</u>	<u>Length</u>	<u>Width</u>	<u>Remarks</u>	25X1
4-18	Huang Pu Small Craft Yard A. 3 Marine Railways	300	15	4 small vessels under repair	
4-19	T-Head Pier Approach	150	30		
4-20	Pontoon Wharf 2 Approaches	110		25X1D	
4-21	Offshore Wharf 5 Approaches	330	35 20		
4-22	T-Head Pier Approach	370	15	25X1D	
4-23	Storage Area Covered Storage	2000 155,000 square feet	1500	Coal Storage	
4-24	Chiu Hsin Shipyard			25X1D	
4-25	Pier	120			
4-26	T-Head Pier Approach	50	20 15		
4-27	Vechicular Ferry Landing				
4-28	Marginal Wharf	420	60	2 Mobile cranes	
4-29	Pontoon Wharf Approach	65 15	15 15		
4-30	Tung-Chia-Tu Shipyard 2 Quays Graving Dock	25X1D 150 380	85 110	3 Mobile cranes 1 Tower jib crane	
4-31	Offshore/Marginal Wharf	710	50	2 Mobile cranes	
4-32	T-Head Pier Covered Approach	60 15	15 15		
4-33	T-Head Pier Approach	60 60	25	25X1D	
4-34	Pier	55			

25X1D

25X

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25X1

<u>Item</u>	<u>Description</u>	<u>Length</u>	<u>Width</u>	<u>Remarks</u>
4-35	Offshore Wharf 2 Approaches	160 <input type="text"/>	30 15	25X1D
4-36	Offshore Wharf 3 Approaches	290 <input type="text"/>	30 15	4 Mobile cranes 25X1D
4-37	L-Head Pier (Covered) Approach	60 25	<input type="text"/> 20	25X1D
4-38	T-Head Pier Approach	70 50	20 <input type="text"/>	25X1D
4-39	Boat Landing	70	75	
4-40	Pontoon Wharf (Covered) 2 Covered Approaches	270 50	25 <input type="text"/>	From building
4-41	Marginal Wharf	1050	80	

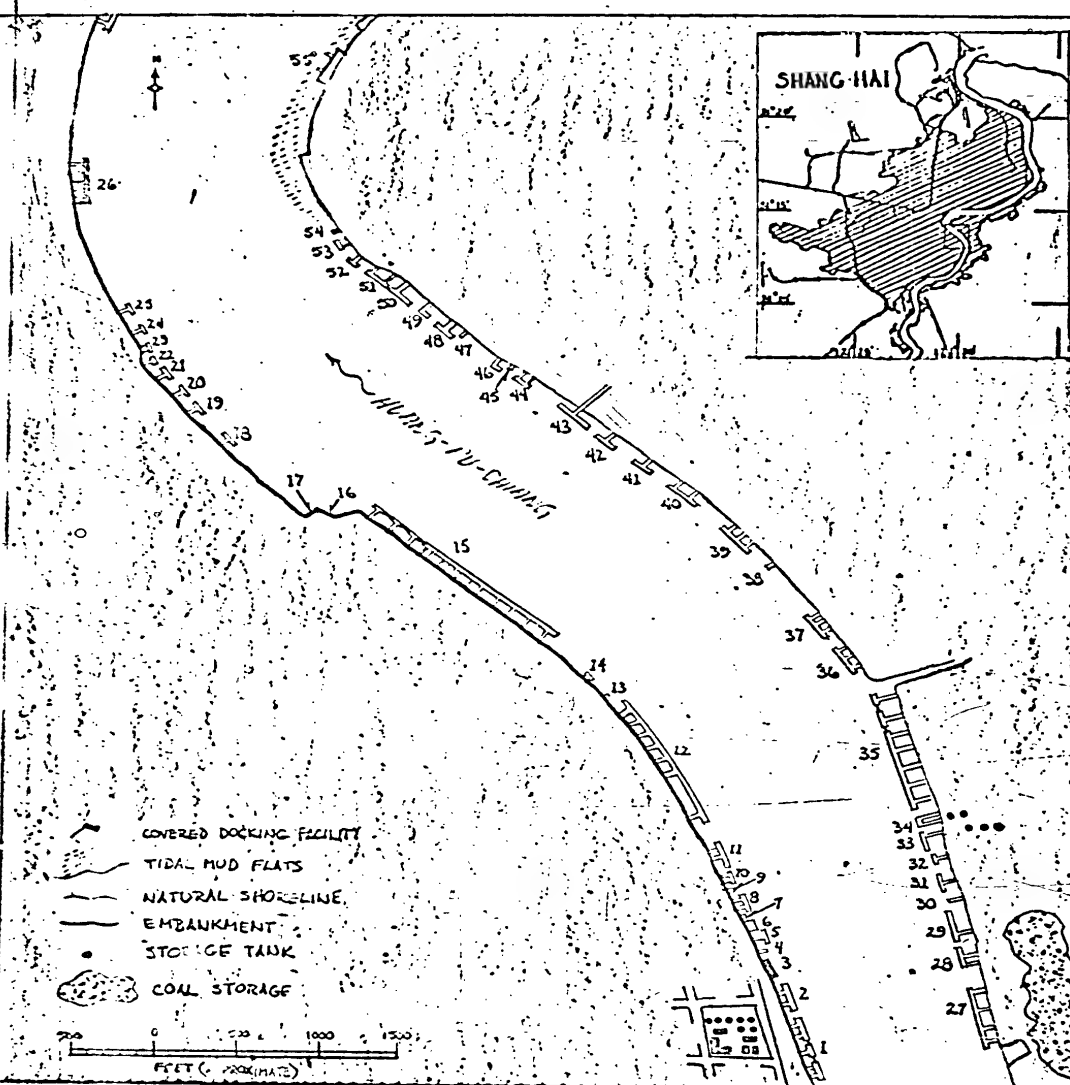
25X1D

25X1

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25X1



6

After June 1949

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12037
FIG 4 OF 17

25X1

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25X1

<u>Item</u>	<u>Description</u>	<u>Length</u>	<u>Width</u>	<u>Remarks</u>
5-1	Pontoons 5 Approaches	545	30 15	Series of pontoons and catwalks
5-2	Pontoon 2 Approaches	175	25 15	
5-3	Marginal Wharf	130	25	
5-4	Pier	60	15	Probable pontoon approach
5-5	Pontoon 1 Approach	75	30 15	
5-6	Covered Structure	75	45	
5-7	Breasting Platform Approach	25	25 15	
5-8	Probable Pontoon 2 Approaches	140	25 15	Approaches covered
5-9	Pontoon Approach	70	30 20	Approach covered
5-10	Probable Pontoon 2 Approaches	70	25 10	Approaches covered
5-11	Pontoons 2 Approaches	235	30 20	Series of pontoons and catwalks
5-12	Pontoons 9 Approaches	2680	30 15	Series of pontoons and catwalks
5-13	Pier	40	15	Probable pontoon approach
5-14	Ferry Terminal 2 Approaches	55	25 15	Pontoon
5-15	Pontoons 8 Approaches 7 Approaches	1840	25 20 15	Series of pontoons and catwalks
5-16	Marginal Wharf	100		
5-17	Marginal Wharf	75		
5-18	Pontoon 1 Approach	130	25 15	
5-19	Pontoon 1 Approach	75	25 10	Covered

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<u>Item</u>	<u>Description</u>	<u>Length</u>	<u>Width</u>	<u>Remarks</u>
5-20	Pontoon 1 Approach	100	30 10	Covered 25X1D
5-21	Pontoon 1 Approach	120	25 10	Covered 25X1D
5-22	Pontoon 1 Approach	40	25 <input type="checkbox"/>	Covered
5-23	Pontoon 2 Approaches	60	25 <input type="checkbox"/>	Possibly covered
5-24	Pontoon 1 Approach	60	25 <input type="checkbox"/>	25X1D
5-25	Pontoon 1 Approach	60	25 <input type="checkbox"/>	25X1D
5-26	Marginal Wharf 3 Possible Pontoons 2 Approaches	215 405 oa	60 30 15	Building on wharf Outboard from wharf, possibly covered
5-27	Pontoons 4 Approaches	475	25 15	Series of pontoons
5-28	Pontoons 2 Approaches	175	30 15	Series of pontoons
5-29	Pontoons 1 Approach	345	30 15	Series of pontoons
5-30	Pier	60	20	
5-31	Pontoon 1 Approach	60	25 10	
5-32	Pontoon 1 Approach	75	30 20	
5-33	Pontoon 1 Approach	125	25 15	
5-34	Pontoon 2 Approaches	45	20 15	
5-35	Pontoons 7 Approaches	900	30 15	Series of pontoons and catwalks

25X1

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25X1

<u>Item</u>	<u>Description</u>	<u>Length</u>	<u>Width</u>	<u>Remarks</u>
5-36	Pontoons 3 Approaches	230	40 20	Series of pontoons; 1 covered
5-37	Pontoons 3 Approaches	230	40 20	Series of pontoons; 1 covered
5-38	Pier	45	25	
5-39	Pontoons 3 Approaches	230	40 20	Series of pontoons
5-40	Pontoons 2 Approaches	305	30 15	Series of pontoons
5-41	Pontoon 1 Approach	145	30 15	4 Floating cranes
5-42	Pontoon 1 Approach	90	25 15	
5-43	T-Head Pier Approach	235	40 20	
5-44	Pontoon 2 Approaches	140	25 20	
5-45	Breasting Platform	40	30 15	
5-46	L-Head Pier Approach	100	40 30	
5-47	Pier	40	30	
5-48	Pontoon 1 Approach	140	30 20	
5-49	L-Head Pier Approach	100	25 20	
5-50	T-Head Pier Approach	190	40 15	
5-51	Pontoon 2 Approaches	185	40 10	
5-52	Pontoon 1 Approach	60	25	25X1D

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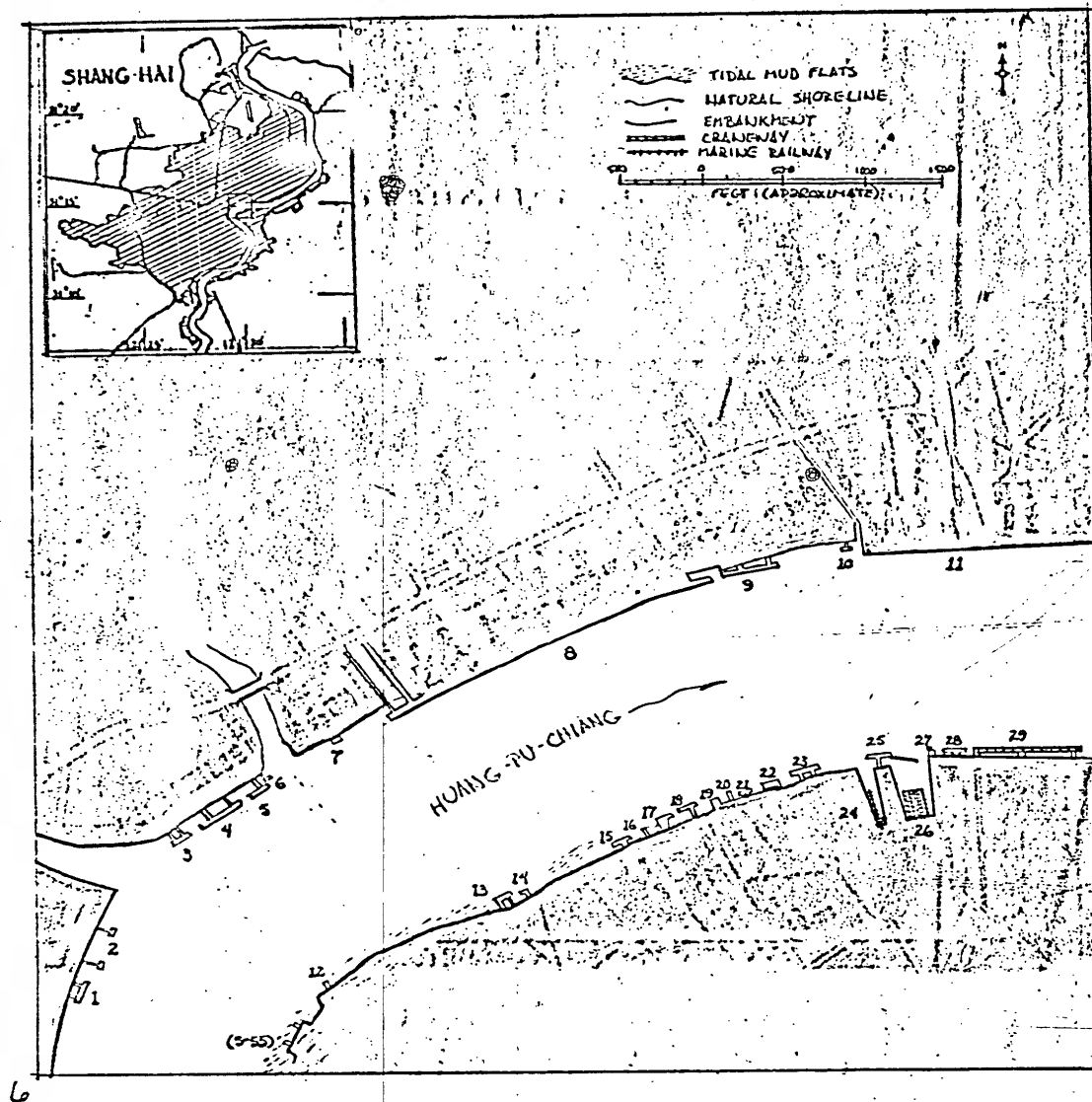
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<u>Item</u>	<u>Description</u>	<u>Length</u>	<u>Width</u>	<u>Remarks</u>
5-53	Pontoon 2 Approaches	60	25 15	
5-54	Breasting Platform Approach	25	10	
5-55	2 Breasting Platforms	30		25X1D

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25X1



MAKE SAME SIZE 6 1/4 x 7 1/2"

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FIG. 1 OF 1017

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25X1

<u>Item</u>	<u>Description</u>	<u>Length</u>	<u>Width</u>	<u>Remarks</u>
6-1	Pontoon	160	30	
6-2	2 Breasting Platforms			
6-3	Pontoon 2 Approaches	190	30 15	
6-4	Pontoon 2 Approaches	300	30 15	
6-5	Pontoon 1 Approach	125	30 15	
6-6	T-Head Pier Approach	60	20 10	
6-7	Pontoon	55	15	Along shore
6-8	Marginal Wharf 2 Automotive cranes 1 Conveyor	2490		Includes offshore section
6-9	Pontoon 3 Approaches	535	30 30-15	25X1D
6-10	Pontoon 1 Approach	45	25 30	
6-11	Marginal Wharf	2005		2 Automotive Cranes
6-12	Pier	40	<input type="checkbox"/>	
6-13	Offshore Wharf 2 Approaches	115	25 15	
6-14	Possible Breasting Platform Approach	15	10 <input type="checkbox"/>	25X1D
6-15	Pontoon 1 Approach	45	25 5	
6-16	Pier	75	15	
6-17	L-Head Pier	85	75	Outline only
6-18	Pontoon 1 Approach	130	35 15	

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25X1

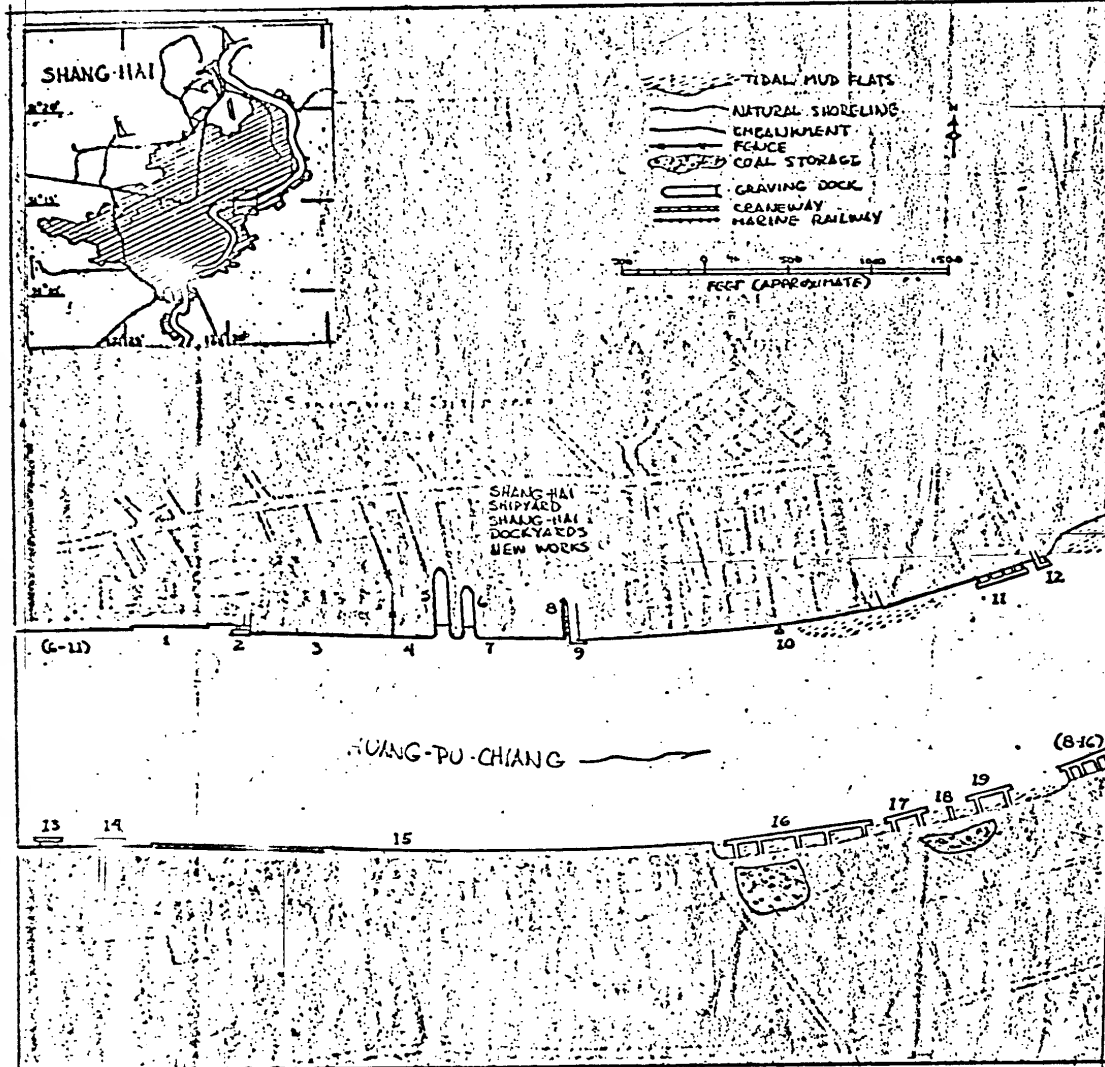
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<u>Item</u>	<u>Description</u>	<u>Length</u>	<u>Width</u>	<u>Remarks</u>
6-19	Possible Pier	70	55	
6-20	Pier	55	15	
6-21	Pontoon 2 Approaches	55	25 5	
6-22	Pontoon 1 Approach	115	60 <input type="checkbox"/>	25X1D
6-23	Pontoon 2 Approaches	175	25 15	
6-24	Marine Railway Portal Jib Crane	335	20	Visible
6-25	Pontoons 1 Approach	480 oa	30	Series of pontoons and catwalks
6-26	Marine Railway Probably 17 Tracks Cradle	270 oa 155 270	155 Varies 30	Visible 14 Tracks visible in <input type="checkbox"/> 17 Tracks visible in <input type="checkbox"/>
6-27	Wharf Pontoon Moored at Wharf	60	40	2 Approches, rest silted in 25X1D
6-28	Pontoon 1 Approach	130	30 15	
6-29	Offshore Wharf 3 Approaches Crane Way 1 Portal Jib Crane 2 Automotive Jib Cranes	660 630	30 25 25	

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25X1



7 Make same size 6 1/2 x 7 1/2

12037 P
FIG 8 OF 28

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<u>Item</u>	<u>Description</u>	<u>Length</u>	<u>Width</u>	<u>Remarks</u>
7-1	Marginal Wharf 2 Automotive Cranes	475		
7-2	Pontoon 1 Approach	55	25 15	
7-3	Marginal Wharf	975		
7-4	Marginal Wharf	85		
Shang-Hai Shipyard Shang-Hai Dockyards New Works (Items 5-9)				
7-5	Graving Dock, Coping	575	100	2 Automotive cranes
7-6	Graving Dock, Coping	335	75	
7-7	Marginal Wharf	725 oa		Fitting-out wharf; length includes gate of 6
7-8	Marine Railway	320	15	Approximate length
7-9	Pontoon 1 Approach	60	30 10	
7-10	T-Head Pier Approach	15		25X1D
7-11	Pontoons 5 Approaches	360	30 10	Series of pontoons and catwalks
7-12	Ferry Terminal	75	25	Pontoon
7-13	Pontoon 2 Approaches	200	30 20	
7-14	Offshore Wharf 2 Approaches 1 Floating Crane	200	40 20	
7-15	Marginal Wharf Crane Way 1 Portal Jib Crane 3 Automotive Cranes	3570 1150	25	
7-16	Pontoons 5 Approaches	960	30 20	Series of pontoons
7-17	Pontoons 2 Approaches	305	30 20	Series of pontoons
7-18	Pier	10		25X1

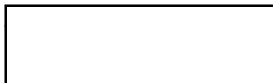
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<u>Item</u>	<u>Description</u>	<u>Length</u>	<u>Width</u>	<u>Remarks</u>
7-19	Pontoons 2 Approaches	315	30 15	Series of pontoons

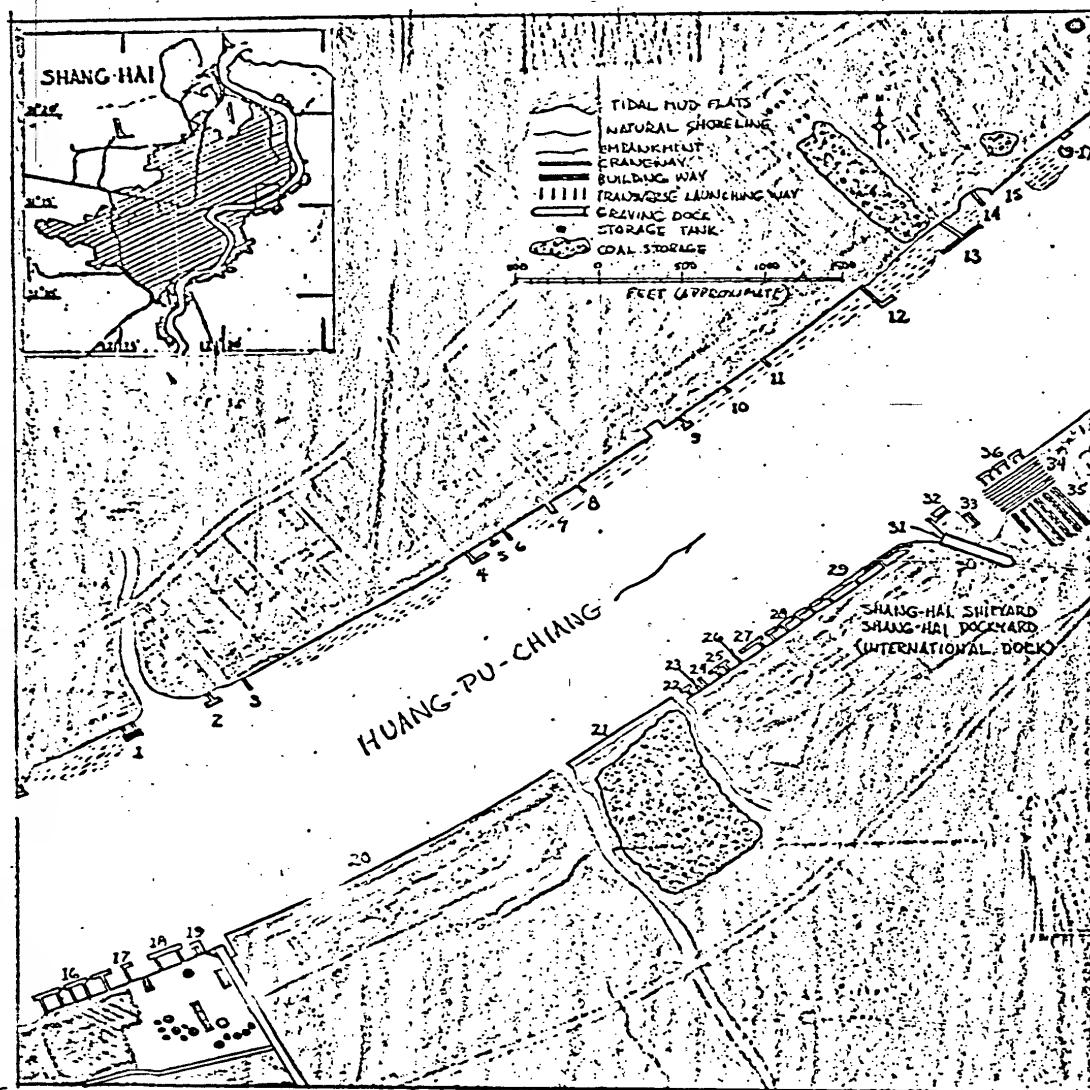
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25X1



Make some size 6 1/4" x 7 1/4"

12037P
FIG 2 OF 18-17

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25X1

<u>Item</u>	<u>Description</u>	<u>Length</u>	<u>Width</u>	<u>Remarks</u>
8-1	Pontoon 2 Approaches	100	40 15	Covered
8-2	Pontoon 1 Approach	70	30 10	
8-3	Finger Pier	70	<input type="checkbox"/>	25X1D
8-4	Pontoon 1 Approach	70	25 25	
8-5	Pontoon/Breasting Platform			
8-6	Pier	60	15	
8-7	Pier	40	20	
8-8	Pier	40	20	
8-9	Probable Pontoon	45	25	
8-10	Pier	40	15	
8-11	Pier	55	15	
8-12	L-Head Pier Approach	90	25 20	
8-13	T-Head Pier Approach	305	10 20	
8-14	Pier	95	10	
8-15	Marginal Wharf Overhead Coal Conveyor	345	20	Includes offshore extension
8-16	Pontoons 5 Approaches	605	30 15	Series of pontoons and catwalks
8-17	Pontoon 1 Approach	60	25 <input type="checkbox"/>	25X1D
8-18	Pontoons 2 Approaches	200	25 10	Series of pontoons

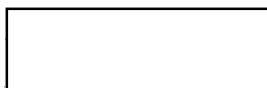
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<u>Item</u>	<u>Description</u>	<u>Length</u>	<u>Width</u>	<u>Remarks</u>
8-19	Ferry Terminal			
8-20	Marginal Wharf 3 Automotive Cranes	2390		
8-21	Marginal Wharf	750		Coal storage
8-22	Pontoon 1 Approach	45	15 10	
8-23	Pier	30	15	
8-24	Pier	60	15	
8-25	Pontoons 2 Approaches	170 60	25 10	Series of pontoons
8-26	Pier	60	15	
	Shang-Hai Shipyard Shang-Hai Dockyard (International Dock) (Items 27 - 36)			
8-27	Pontoon 1 Approach	180	25 10	
8-28	Pontoons	540	30	Series of pontoons and catwalks; catwalk to item 29
8-29	Wharf	585 45 190	30 30	2 Offshore sections
	3 Approaches Crane Way 1 Portal Jib Crane	20 340 25		1 Marginal section
8-30	Graving Dock, Coving	555	120	
8-31	Quay	85		
8-32	Pontoon 1 Approach	100	30 10	
8-33	Offshore Wharf 2 Approaches Pontoon moored alongside	120 80	5 5 15	

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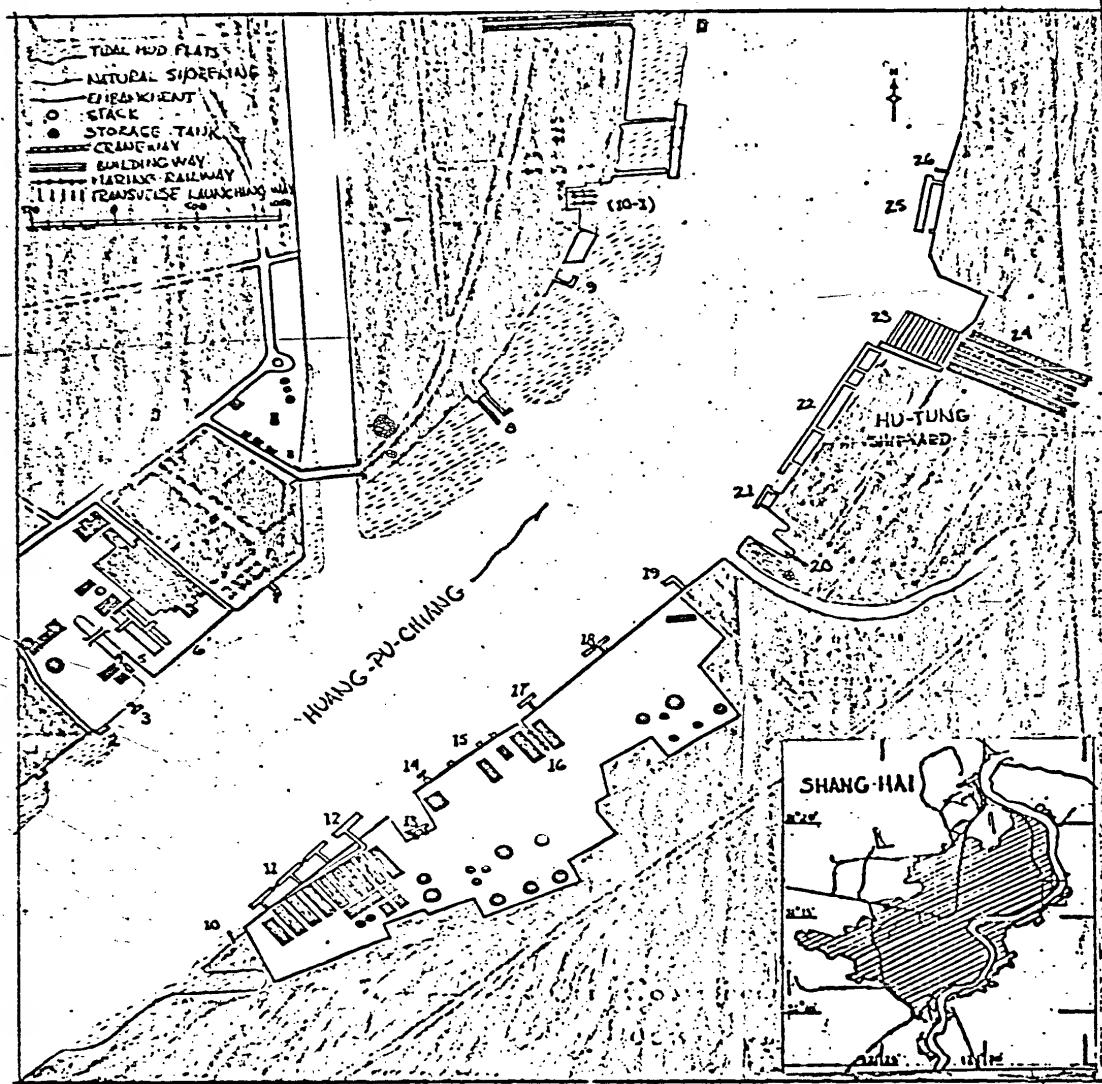
25X1

<u>Item</u>	<u>Description</u>	<u>Length</u>	<u>Width</u>	<u>Remarks</u>
8-34	Side Launching Ways Cradle	350-415 170	175 10	9 Rails
8-35	Transverse Building Ways 5 Ways 1 Way	440 230	20 20	
8-36	Pontoons 6 Approaches	380	25 10	Series of pontoons and catwalks

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25X1.

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Make same size - $6\frac{1}{4} \times 7\frac{1}{2}$

12037 P
FIG 9 OF 17

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25X1

<u>Item</u>	<u>Description</u>	<u>Length</u>	<u>Width</u>	<u>Remarks</u>
9-1	Marginal Wharf	45	40	
9-2	Marchinal Wharf	85	25	Possibly covered
9-3	T-Head Pier Approach	55	10 10	
9-4	T-Head Pier Approach	85		In wet basin
9-5	Marginal Wharf	275		Faces wet basin
9-6	Marginal Wharf 1 Overhead Conveyor	630		25X1D
9-7	Pier	45	15	
9-8	Ferry Terminal			
9-9	Pontoon 1 Approach	100	20 10	
9-10	Pier	90	5	
9-11	Pontoons 3 Approaches	650	30 15	Series of pontoons and catwalks
9-12	T-Head Pier Approach	220	40 25	
9-13	Pontoon 2 Approaches	155	30 15	
9-14	Pontoon 1 Approach	45	15 15	
9-15	3 Breasting Platforms	25	20	
9-16	Marine Railway	105	20	1 Set of tracks
9-17	Pontoon 1 Approach	150	25 15	
9-18	Pontoons 1 Approach	170	25	2 Pontoons and catwalks
9-19	Ferry Terminal			

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25X1

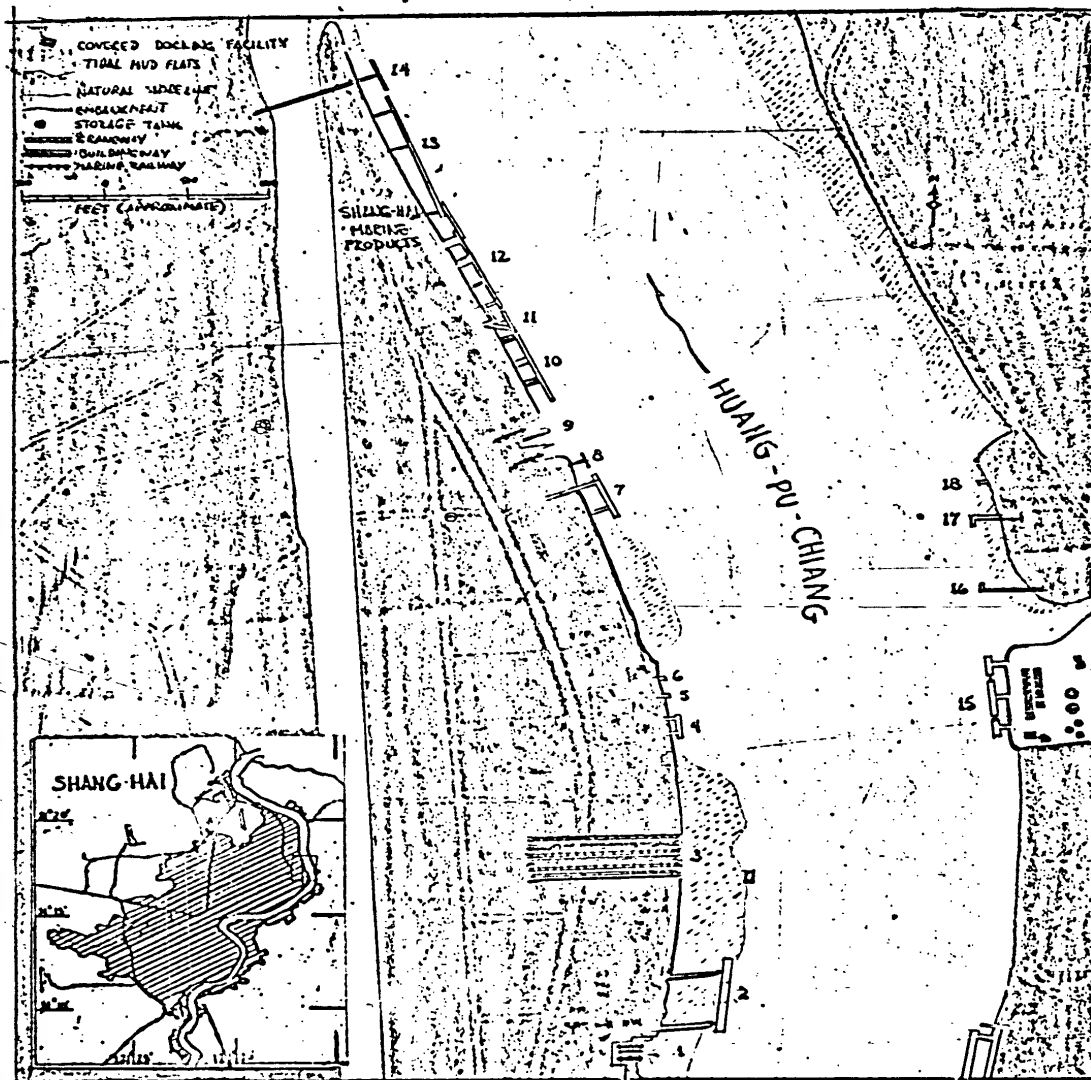
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25X1

<u>Item</u>	<u>Description</u>	<u>Length</u>	<u>Width</u>	<u>Remarks</u>
	Hu-Tung Shipyard (Items 20 - 26)			
9-20	Marine Railway	165	15	
9-21	Offshore Wharf 2 Approaches	225	35 25	
9-22	Offshore Wharf 5 Approaches	1120	35 30	
9-23	Transverse Launching Way Cradle	350 350	335 200	
9-24	Building Ways 4 2 Ways 2 Ways 2 Crane Ways 1 Crane Way	880 860 885 860	105 85	
9-25	Offshore Wharf 1 Approach	460	45 20	
9-26	Pier	85	20	

25X1

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10 Make some size 6 1/4" x 7 1/2"

12037 P
FIG 10 of 17

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<u>Item</u>	<u>Description</u>	<u>Length</u>	<u>Width</u>	<u>Remarks</u>
	Chung Hua Shipyard (Items 1 - 6)			
10-1	3 Marine Railways ea	135	10	End haul type
10-2	Pontoons	570	30	3 Pontoons
	Approach		25	
	Approach		15	
	Floating Crane			
10-3	3 Building Ways	ea. 985	45	
	3 Crane Ways	985		
10-4	Offshore Wharf	105	30	
	2 Approaches		15	
10-5	Pier	55	20	Possible pontoon approach
10-6	Pier	55	20	Possible pontoon approach
10-7	Offshore Wharf	390	35	
	2 Approaches		40	
10-8	Pontoon	110	25	
	1 Approach		10	
10-9	Boatyard			
	2 Marine Railways	165	15	Visible section; end haul type
	Transverser,			
	8 rails	265 oa	100 oa	Inland from marine railways
	Cradle	265	10	
	7 Building Ways	265 oa	125 oa	Inland from transverser;
	Building Ways	265 oa	165 oa	riverward from transverser,
				area includes marine railways
	Shang-Hai Marine Products (Items 10-14)			
10-10	Pontoons	635 oa	25	Series of pontoons and catwalks
	3 Approaches		10	
10-11	T-Head Pier	195	40	
	Approach		35	
	2 Overhead Conveyors			To probable ice house
10-12	Offshore Wharf	780	35	
	4 Approaches		40	2 Covered. 25X1 25X1
	1 Overhead Conveyor			
10-13	Offshore Wharf	1160	30	(10- <input type="checkbox"/> connected by pontoons/
	3 Approaches		25	timbers against faces of
				landing structures)

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25X1

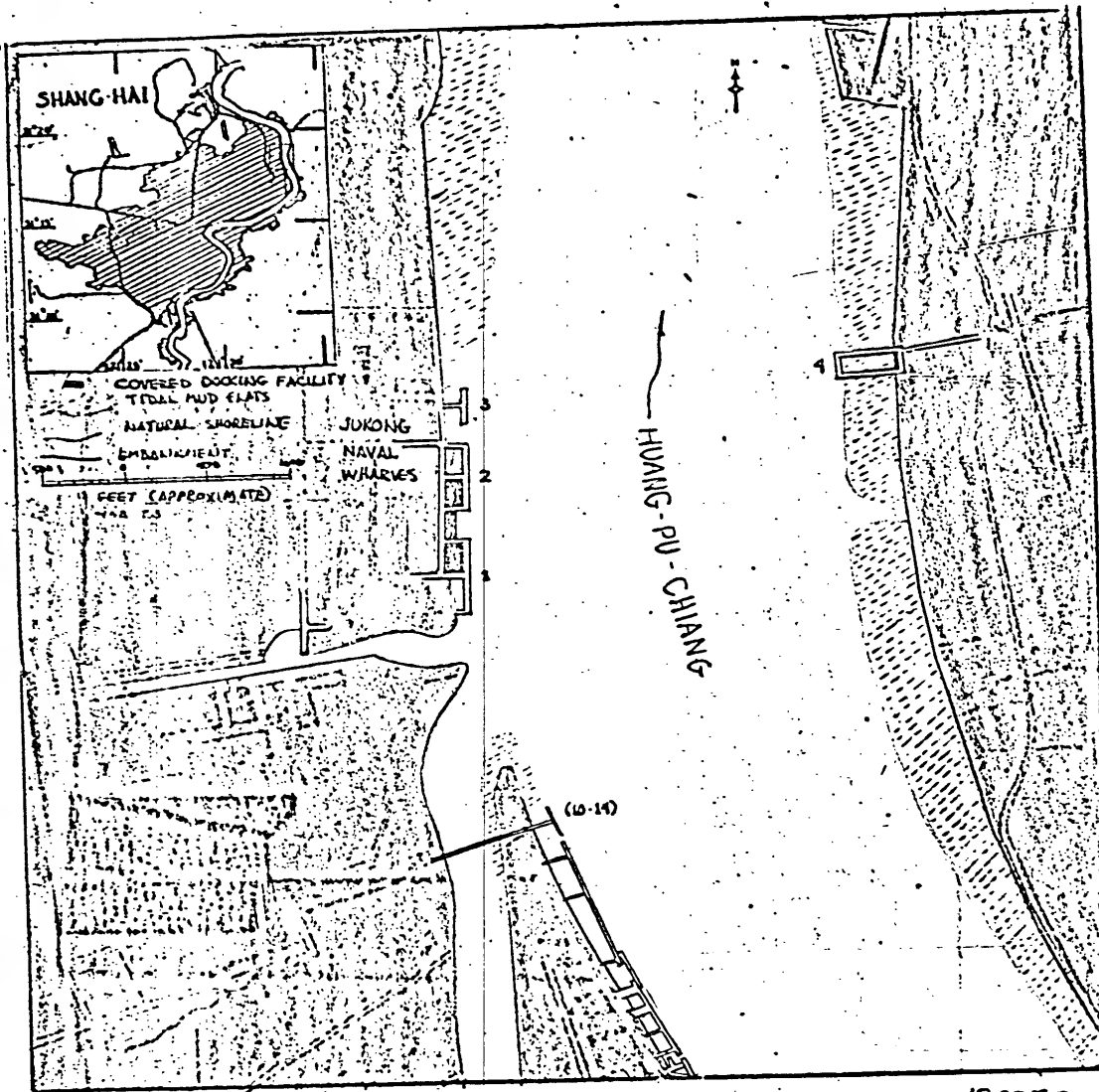
25X1D

<u>Item</u>	<u>Description</u>	<u>Length</u>	<u>Width</u>	<u>Remarks</u>
10-14	T-Head Pier Approach 1 Overhead Conveyor Connects to Mainland	280 oa	<input type="checkbox"/>	Breasting platform and dolphins connected by catwalks
10-15	Pontoons 3 Approaches	540	35 15	Series of pontoons and catwalks
10-16	L-Head Pier Approach	110	15 10	Oil pier
10-17	L-Head Pier Approach	25	10 25	
10-18	Pier	50	10	

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25X1



11 Make same size - $6\frac{1}{4} \times 7\frac{1}{16}$

12037 P
FIG 12 OF 13

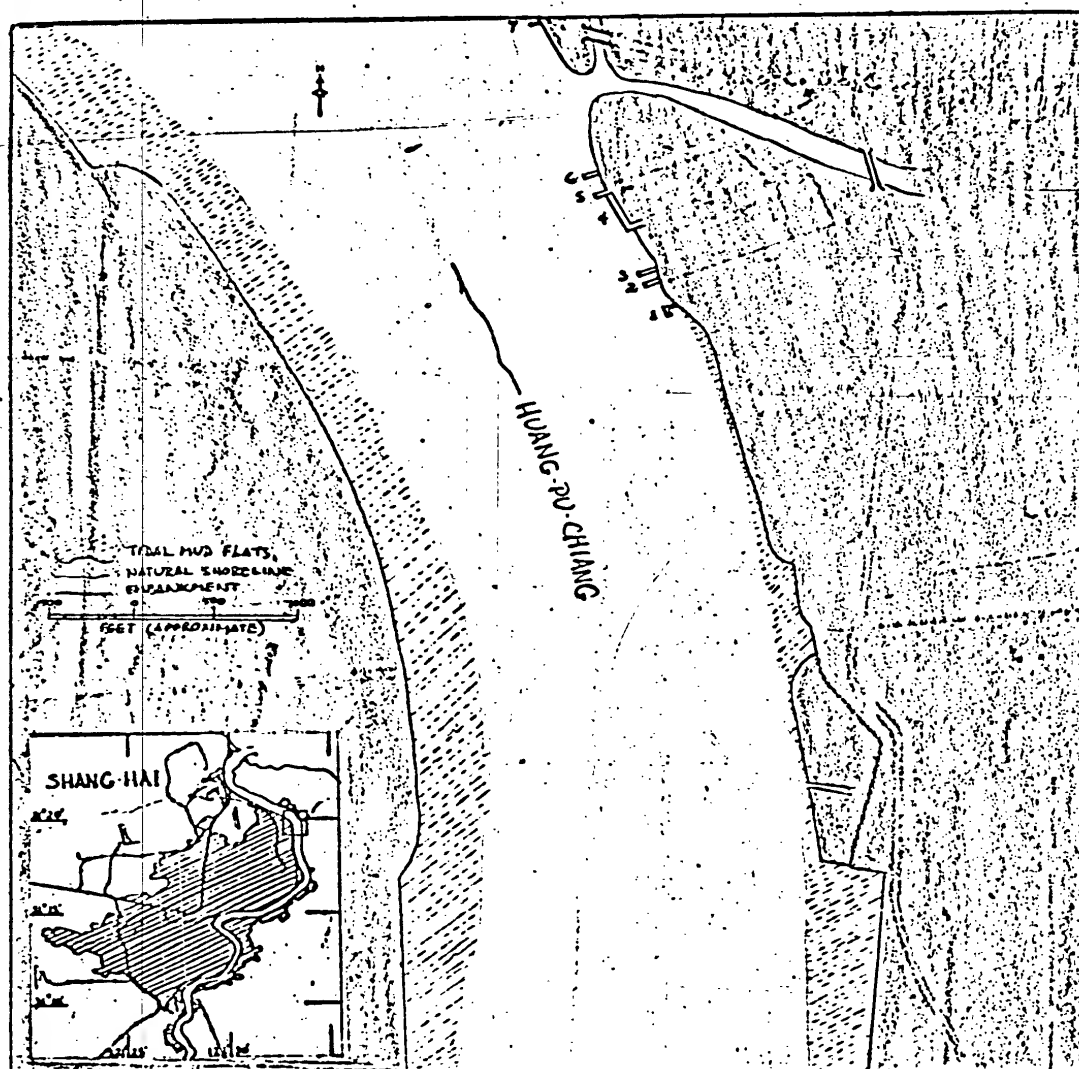
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<u>Item</u>	<u>Description</u>	<u>Length</u>	<u>Width</u>	<u>Remarks</u>
	Jukong Naval Wharves (Items 1 - 3)			
11-1	Wharf 3 Approaches	555	50 45	Combination marginal and off-shore
11-2	Wharf 3 Approaches	550	50 45	Combination marginal and off-shore
11-3	Pontoon 1 Approach 1 Possible Conveyor	200	30 10	
11-4	Offshore Wharf 2 Approaches	230	40 20	

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25X1



12

Make same size - $6\frac{1}{4} \times 7\frac{1}{2}$ "

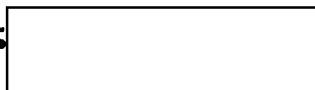
12037 P
FIG 3 OF 17

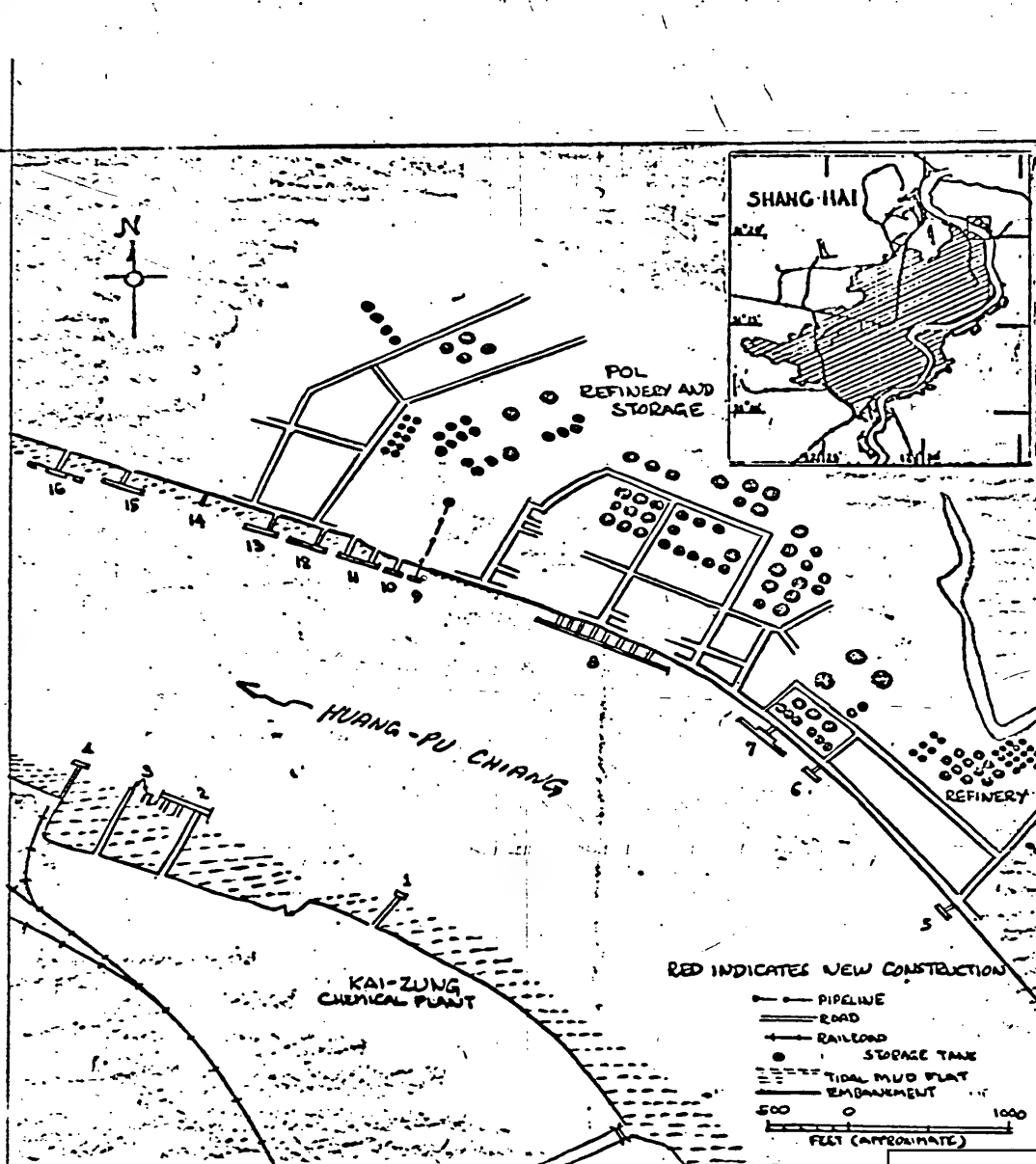
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<u>Item</u>	<u>Description</u>	<u>Length</u>	<u>Width</u>	<u>Remarks</u>
12-1	L-Head Pier Approach	90	25 10	
12-2	Pier	135	10	
12-3	Pier	135	10	
12-4	Marginal Wharf	185	65	
12-5	Pier	135	10	
12-6	Pier	135	10	
12-7	Pier	45	20	

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12037 P/64
FIG. 13 OF 18

25X1

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25X1

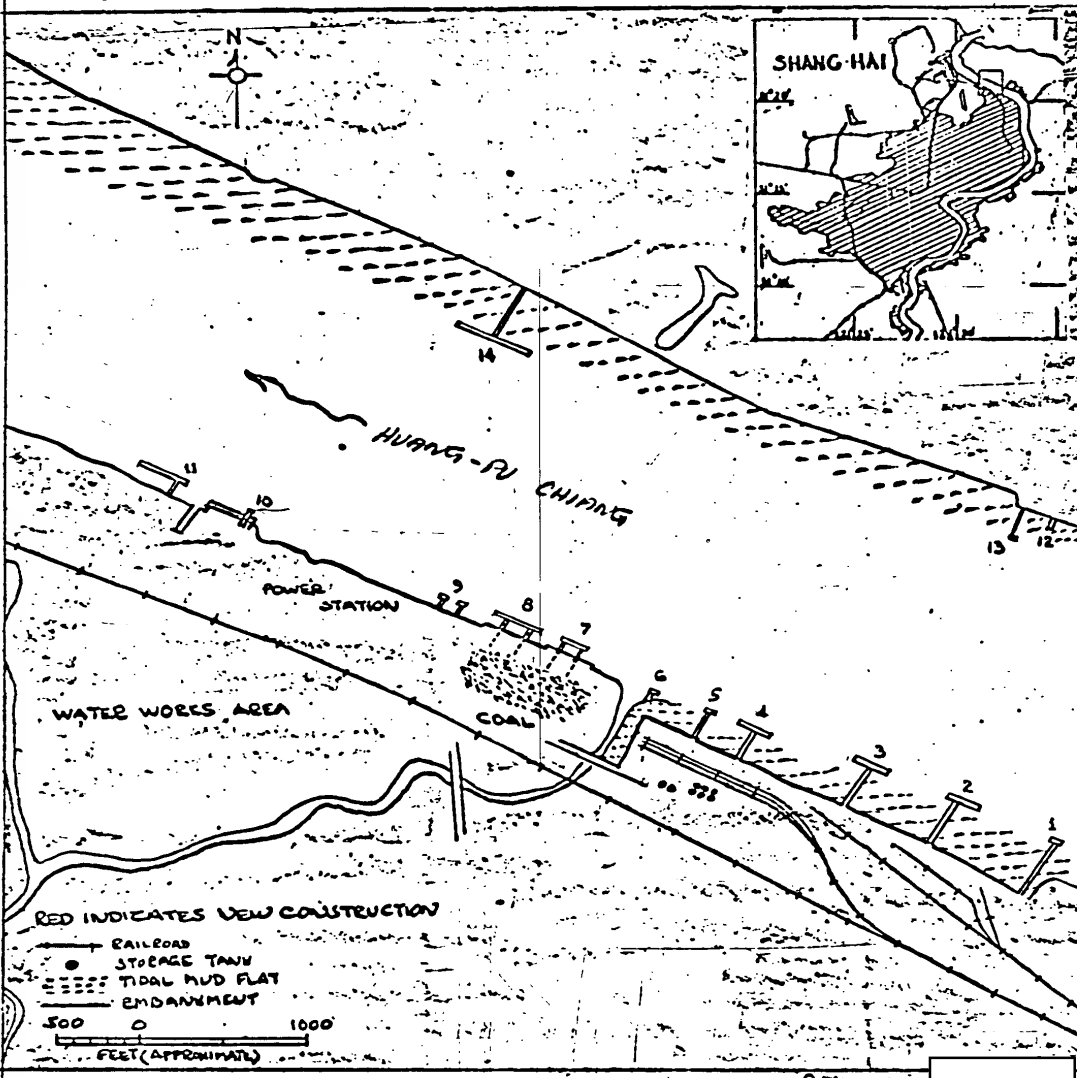
<u>Item</u>	<u>Description</u>	<u>Length</u>	<u>Width</u>	<u>Remarks</u>
13-1	T-Head Pier Approach	80	30 20	
13-2	Pontoons 3 Approaches	365	30 20	
13-3	Approaches (2)			Unused
13-4	T-Head Pier Approach	115	30	
13-5	Pontoon 1 Approach	125	15 20	
13-6	Pontoon 1 Approach	115	25 20	
13-7	T-Head Pier Approach	395	20-40 20	
13-8	Pontoons 6 Approaches	945	25 20	Series of pontoons and catwalks; 4 pipelines onto structure; 2 unused approaches
13-9	Pontoons 1 Approach	70	25 20	Pipeline onto structure
13-10	Pontoon 1 Approach	110	30 15	
13-11	Pontoons 2 Approaches	250	30 20	
13-12	Pontoons 1 Approach	250	30 20	
13-13	Pontoons 1 Approach	250	30 20	
13-14	Pier	75	10	
13-15	Pontoon 1 Approach	280	30 15	
13-16	T-Head Pier Complex Approach	305*	30* 25	T-Head pier, 2 breasting platforms and catwalks

* Overall

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25X1



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25X1

12037P/64
FIG 14 OF 18

10-10

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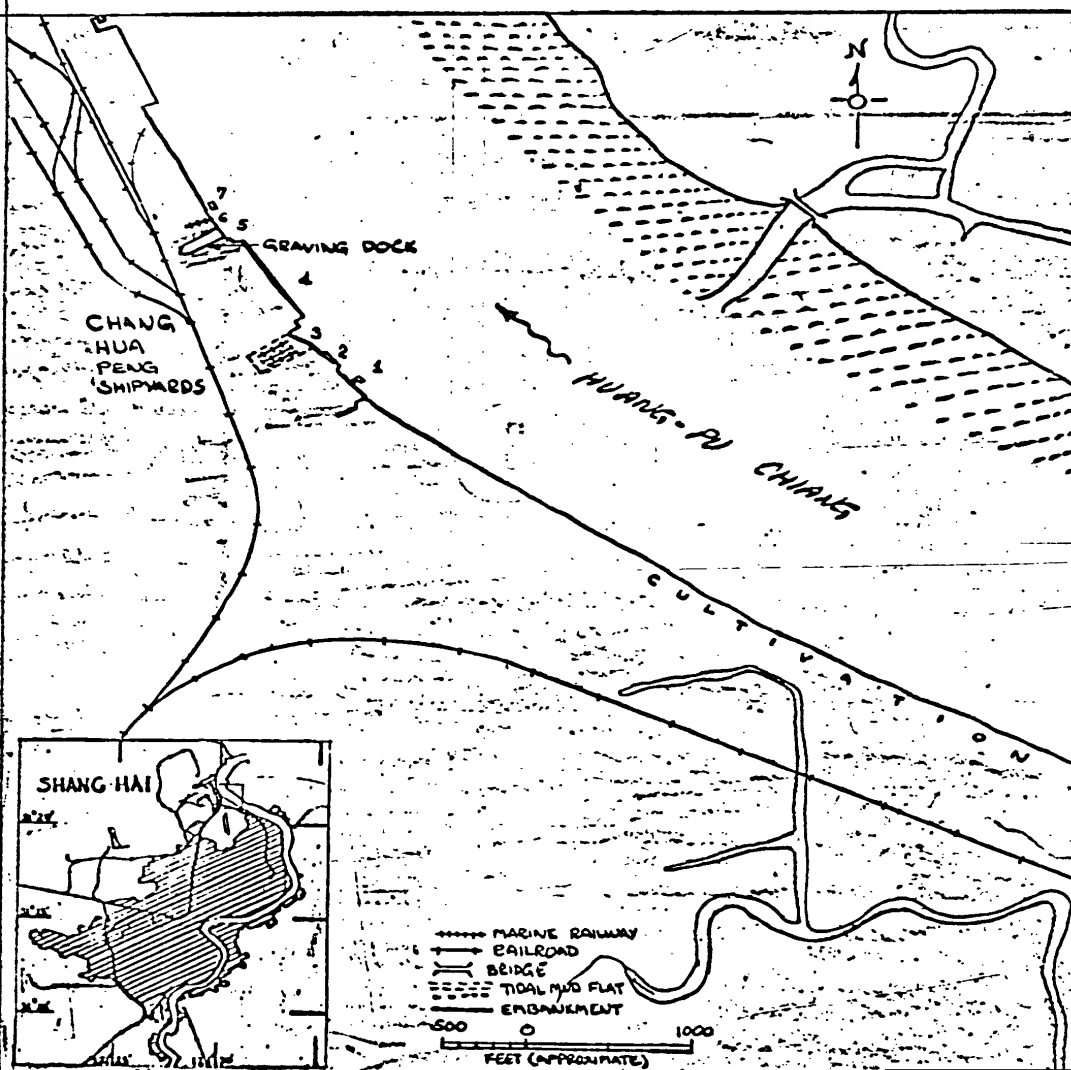
25X1

<u>Item</u>	<u>Description</u>	<u>Length</u>	<u>Width</u>	<u>Remarks</u>
14-1	T-Head Pier Approach	90	15 15	Oil pier
14-2	Pontoon 1 Approach	225	30 20	
14-3	Pontoon 1 Approach	225	30 15	
14-4	Pontoon 1 Approach	225	30 20	
14-5	T-Head Pier Approach	70	15 15	
14-6	Pontoon 1 Approach	55	20 15	
14-7	Pontoons 2 Approaches	170	20 10	2 Overhead coal conveyors
14-8	Pontoons 2 Approaches	340	20 20	2 Overhead coal conveyors
14-9	Breasting Platforms (2) Approaches	45	30 10	
14-10	Offshore Wharf 2 Approaches	25	20 10	Overhead conveyor
14-11	Pontoons 1 Approach	320	30	
14-12	Pier	75	30	
14-13	Pontoon 1 Approach	35	20 10	
14-14	Pontoons 1 Approach	475	30 10	

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25X1



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25X1

12037P/64
FIG 15 OF 18

~~SECRET~~

25X1

<u>Item</u>	<u>Description</u>	<u>Length</u>	<u>Width</u>	<u>Remarks</u>
Chang-Hua-Peng Shipyard (Items 1 - 6)				
15-1	L-Head Pier Approach	20	10 10	
15-2	Marginal Wharf	115	30	
15-3	Marine Railway	180*	100*	3 Sets of rails; end haul
15-4	Marginal Wharf	645	60	
15-5	Graving Dock, Coping	265	40	
15-6	Marine Railway	125	30	1 Set of rails; end haul
15-7	Pontoon 1 Approach	50	20 15	

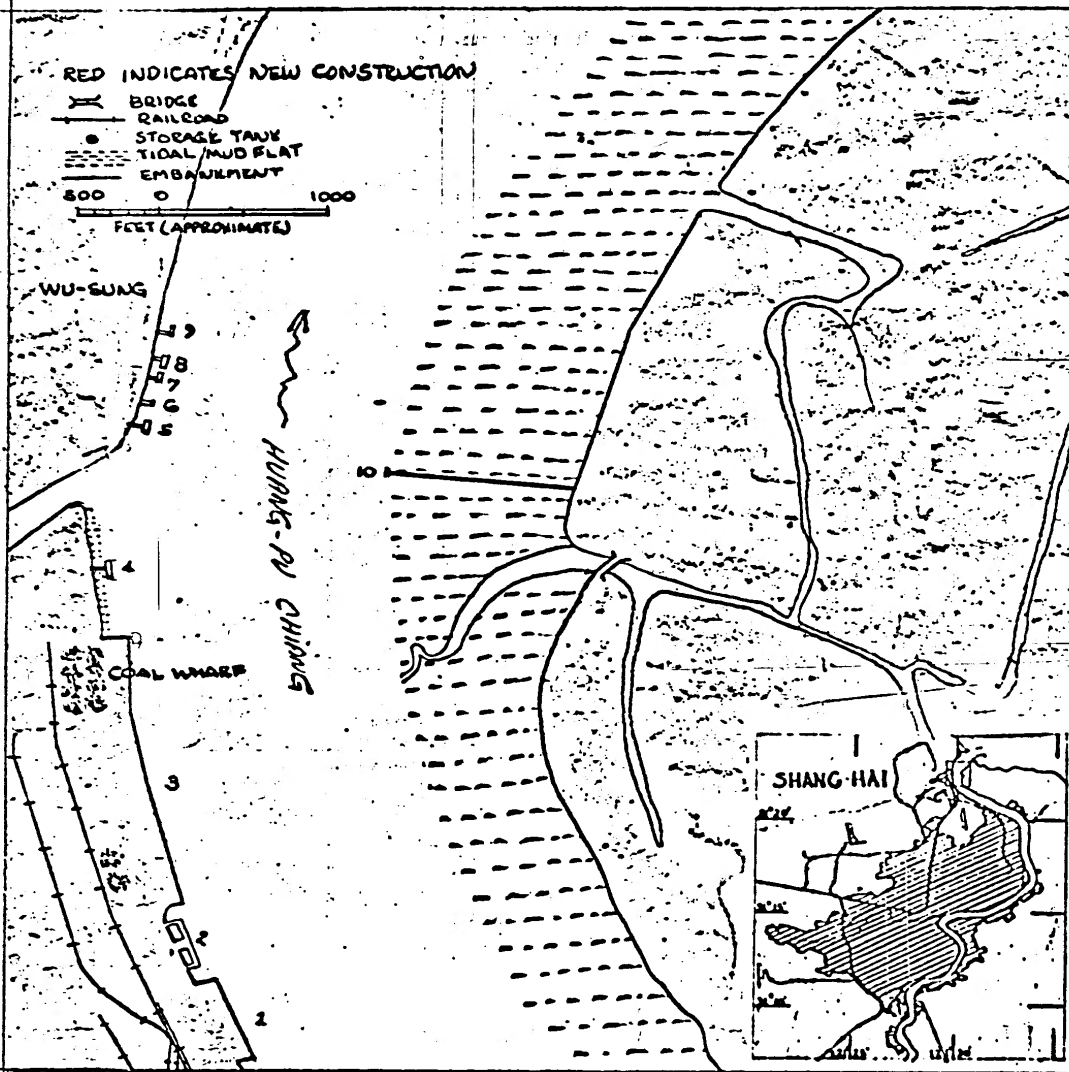
25X1

* Overall

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SECRET

25X1



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25X1

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FIG 10 OF 1817

~~SECRET~~

25X1D

<u>Item</u>	<u>Description</u>	<u>Length</u>	<u>Width</u>	<u>Remarks</u>
16-1	Marginal Wharf	490	60	Conveyors present in <input type="checkbox"/> removed
16-2	Offshore Wharf 1 Approach 2 Approaches	370	40 50 20	
16-3	Marginal Wharf	1560		Curved face; 1 possible portal jib crane
16-4	Pontoon 1 Approach	130	35 10	
16-5	Pontoons 1 Approach	75	35 10	
16-6	Pier	50	10	
16-7	Pontoon 1 Approach	45	15 10	
16-8	Pontoon 1 Approach	75	30 15	
16-9	Probable Pontoon 1 Approach	65	10 10	
16-10	Pontoons 1 Approach	55 1050	10 10	Long approach

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25X1

SECRET

25X1

RED INDICATES NEW CONSTRUCTION

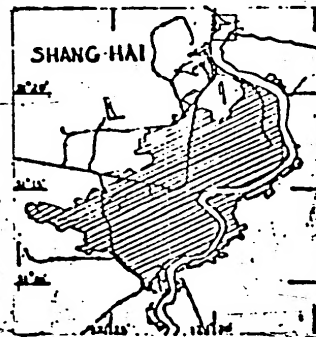
TIDAL MUD FLAT
EMBANKMENT
500 0 1000

NAVAL
BARRACKS
AND
RADIO STATION

WU-SUNG SPIT

WU-SUNG
MTB MAINTENANCE
YARD

HUANG-PU CHIANG



SECRET

12037 P/64
FIG 15 OF 17

25X1

Item	Description	Length	Width	Remarks
17-1	Pontoon 1 Approach	70	25	
17-2	Pontoon 1 Approach	80	25	
17-3	Offshore Wharf Complex Face 3 Approaches 1 Curved Approach 1 Approach (downstream) Catwalk	620* 340	35 15 15 20	Catwalk connects wharf and downstream approach
17-4	Pontoons 2 Approaches	300*	30*	Pontoons and catwalk
17-5	Basin and 2 Moles			Small boats only
17-6	Offshore Wharf 3 Approaches	240	30 15	
17-7	Long Approach	1650	10	Possibly under construction

* Overall

25X1D

References

Documents:

NIS 30A Section 2, Supplement I, 1958 SECRET
CMT 45-285 Shang Hai, Communist China Port Intelligence Study, Nov. 58 SECRET

Charts:

US Air Target Chart, Series 200, Sheet 0492-22E, 2nd ed., August 1964
US Air Target Chart, Series 200, Sheet 0492-22E, 2nd ed., December 1962

Requirement:

NSA/FOI 32/6-64-64(c) (Partial answer)

NYTC Protect:

12037-64 (P)